



ecology and environment, inc.

160 SPEAR STREET, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415/777-2811

International Specialists in the Environment

0788

SFUND RECORDS CTR
147655

MEMORANDUM

TO: Paul La Courreye, EPA Region IX Site Screening Coordinator
FROM: Chris Lichens, Ecology and Environment, Inc. *JM for C.L.*
DATE: September 21, 1989
SUBJECT: Completed Work
cc: Marcia Brooks, E & E, Inc.

Attached is the following completed:

PA____ PA Review X SSI____ LSI____ SIRE____
Other_____

Site Name: McDonnell Douglas Space Systems Company

EPA ID #: CAD008384588

City, County: Huntington Beach, Orange County

State Recommendation: Medium Priority Screening Site Inspection
(for Reviews only)

FOR EPA USE ONLY

CERCLIS Lead:

- State lead
- MUC (2/5/90)
- PA-2 complete
- ~~SA~~ = M

*Entered
2/9/90
C.L.*

c/cc/mcdonnell/cwm

(0783)

PRELIMINARY ASSESSMENT REVIEW

SUBMITTED TO: Paul La Courreye, Site Screening Coordinator
EPA Region IX

PREPARED BY: Cathleen Cauz, Ecology and Environment, Inc. *ce*

THROUGH: Dawn Zemo, Ecology and Environment, Inc. *RJ*

DATE: September 21, 1989

SITE: McDonnell Douglas Space Systems Company
prepared by Hortensia Muniz of California Department
of Health Services, dated April 1989

TDD#: F9-8907-041

EPA ID#: CAD008384588

PROGRAM ACCOUNT#: F09Z117PDA

FIT REVIEW/CONCURRENCE: *James M. James*

cc: FIT Master File
Don Plain, California Department of Health Services

RCRA STATUS

The RCRA status of the site was correctly addressed in the Preliminary Assessment (PA). The McDonnell Douglas Corporation is regulated by RCRA as a generator.

HRS DEFICIENCIES

While numerous items concerning the groundwater and surface water migration routes were not adequately addressed in the PA report, they were contained in the CERCLIS file and are discussed below.

Several groundwater migration factors were not addressed in the PA report. While groundwater contamination has been observed in a shallow zone located at 60 feet below ground surface, no release to the aquifer of concern has been documented. The aquifer of concern supplies drinking water for Huntington Beach. The nearest Huntington Beach well is located

c/cc/mcdonnell/parv



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0.25 mile northeast of the site and is perforated as shallow as 252 feet. The net precipitation is approximately -0.68 inches. According to the Initial Assessment Study of the United States Naval Weapons Station at Seal Beach, California (included in the PA file), the unsaturated zone has moderate to low permeability. It is unknown if the shallow zone and deeper aquifers are interconnected within 3 miles of the site.

The PA did not address the hazardous waste quantity. According to a 1989 Hazardous Waste Disposal Report, the facility generated 85 tons of hazardous waste annually.

The surface water section failed to completely address the possibility of migration to nearby surface water bodies. According to the Initial Assessment Study of the U.S. Naval Weapons Station at Seal Beach, rainfall, excess irrigation water, and shallow aquifer groundwater run off into storm drainage ditches. The drainage ditch ultimately flows into a salt marsh, which is part of the Seal Beach National Wildlife Refuge.

The 1-year 24-hour rainfall is approximately 2.0 inches.

CONCLUSIONS

It appears that the McDonnell Douglas facility located at 5301 Bolsa Avenue in Huntington Beach, California may be eligible for inclusion on the National Priorities List based on the following factors:

- o The potential exists for contaminants in the upper groundwater one to migrate laterally to the nearby salt marsh via storm drainage ditches and to migrate vertically downward to drinking water aquifers, and
- o The lower aquifers may ultimately serve 10,000 people and supply wells are located as close as 0.25 mile to the site.

The California Department of Health Services recommended a medium priority Screening Site Inspection for the site.

EPA RECOMMENDATION

	<u>Initial</u>	<u>Date</u>
No Further Remedial Action Planned	_____	_____
Medium-Priority SSI	<u>MWC</u>	<u>2/7/90</u>
High-Priority SSI	_____	_____